Channel Master®

CM-7000PAL DVR

Digital Video Recorder (DVR) & HDTV Over-the-Air Receiver

USER GUIDE

This page intentionally left blank.

This page intentionally left blank.

Warning and Attention Symbols

You must be aware of safety when you install and use this system. This User Guide provides various procedures. If you do some of these procedures carelessly, you could injure or kill yourself or damage equipment or property. Some other procedures require special attention.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

For Your Safety

Do not try to open the case. There is risk of electrical shock, which may cause damage to the apparatus and/or personal injury or death to you. There are no user-serviceable parts inside. Opening the case or making unauthorized changes will void the warranty.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Important Software Notice

As with all software controlled products, unexpected behavior could arise if the user tries to perform operations in a non-routine manner. This product, like almost any other high tech product, is subject to bugs and hence Channel Master CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT ALL FEATURES, SUCH AS PARENTAL CONTROL, WILL WORK AS INTENDED UNDER ALL CIRCUMSTANCES. In compliance with the terms of the GNU Public License (GPL), Channel Master is making some source code available to the public to download from **www.channelmaster.com**.

Equipment and Software Covered by this Guide

This User Guide covers the CM-7000PAL DVR with HDTV Receiver. This guide may cover other devices, not listed here. The information in this User Guide may change without notice. We may issue revisions to tell you about such changes.

Copyright Notice

Part Number: CM-7000PAL DVR. Copyright © 2010 Channel Master, Mesa, AZ 85202. All rights reserved.

The software embedded in this product includes code that is copyright © 2005 the FreeType Project (www.freetype.org) and which is licensed under the FreeType Project Licence of January 27, 2006.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. HDMI®, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

SAFETY   i

Channel Master®

CM-7000PAL DVR

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with a dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.

12. Unplug this apparatus during lightning storms or when unused for long periods of time.

13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

⚠ **Warning:**

> *APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.*

- Locate the CM-7000PAL DVR in an open, well-ventilated area. Do not place the CM-7000PAL DVR in an enclosure (such as a cabinet) without proper ventilation.

- Do not impede ventilation by covering the ventilation slots (such as with magazines, curtains, tablecloth, etc.), or the CM-7000PAL DVR will overheat.

- Do not stack the CM-7000PAL DVR on top of or below other electronic devices as this can cause heat build-up and vibration.

- Do not install the CM-7000PAL DVR in any area where the temperature can be less than 40 °F or more than 113 °F, and do not cover it.
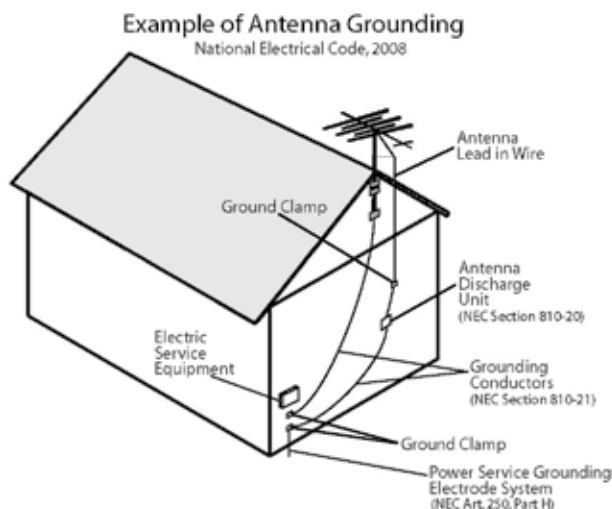
- Connect the power plug to an outlet having a safety ground connection. The power plug must be readily accessible so that the equipment can be easily disconnected from the AC power.

- Operate the CM-7000PAL DVR using only the type of power source indicated on the marking label. Unplug the CM-7000PAL DVR power cord by gripping the power plug, not the cord.

- Do not overload wall outlets or extension cords — this can result in a risk of fire or electrical shock.

- Never insert objects of any kind through openings into the CM-7000PAL DVR, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.

- Do not attempt to service the CM-7000PAL DVR yourself, as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Refer all servicing to authorized service personnel.

- Unplug the CM-7000PAL DVR from the AC power outlet before cleaning. The CM-7000PAL DVR is still connected to the AC power whenever it is plugged in to a live power outlet, even if the CM-7000PAL DVR is turned off using the remote control.

- Do not place naked flame sources such as lighted candles on or near the CM-7000PAL DVR.

- Do not expose the remote control batteries to excessive heat or fire.

Note to Installer:

> THIS REMINDER IS PROVIDED TO CALL THE INSTALLER'S ATTENTION TO ARTICLE 810 SECTION II OF THE NATIONAL ELECTRICAL CODE (NEC) THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

DO NOT LOCATE THE ANTENNA NEAR OVERHEAD LIGHT OR POWER CIRCUITS, OR WHERE IT CAN FALL INTO SUCH POWER LINES OR CIRCUITS. WHEN INSTALLING THE ANTENNA, TAKE EXTREME CARE TO AVOID TOUCHING SUCH POWER LINES OR CIRCUITS, AS CONTACT WITH THEM CAN BE FATAL.

Example of Antenna Grounding
National Electrical Code, 2008

Antenna Lead in Wire

Ground Clamp

Antenna Discharge Unit (NEC Section 810-20)

Electric Service Equipment

Grounding Conductors (NEC Section 810-21)

Ground Clamp

Power Service Grounding Electrode System (NEC Art. 250, Part H)

PROPER CARE OF YOUR EQUIPMENT

- Always handle the CM-7000PAL DVR carefully. Excessive shock and vibration can damage the hard drive.

- Always turn the CM-7000PAL DVR off, unplug it, and then let it sit idle for at least 30 seconds before moving it.

- If the CM-7000PAL DVR is cold to the touch, do not plug it in immediately. Let it sit unplugged at room temperature for at least 45 minutes before plugging it in.

- The use of accessories or attachments not recommended by the CM-7000PAL DVR manufacturer will void the Limited Warranty.

- Use an outlet that contains surge suppression or ground fault protection. During an electrical storm or when the CM-7000PAL DVR is left unattended and unused for long periods of time, unplug the power cord from the wall outlet, and disconnect the lines between the CM-7000PAL DVR and the antenna. This will provide additional protection against damage caused by lightning or power line surges.

- In some TV's, the presence of fixed images for extended periods of time may cause permanent imprints on the screen. Consult your TV's manufacturer and user manual to determine if this is an issue for your TV.

WATCHING TV   1

Channel Master®

CM-7000PAL DVR

GETTING STARTED

Welcome! Your new high-definition, digital video recording, over-the-air receiver is a powerful, yet easy-to-use device you'll enjoy!

CONNECTING CM-7000PAL DVR TO YOUR TV

⚠️ **Important Safety Note:**
> ❯ DO NOT CONNECT YOUR TV OR YOUR CM-7000PAL DVR TO A POWER SUPPLY UNTIL AFTER YOU HAVE PROPERLY CONNECTED ALL OF THE CABLES USING THE FOLLOWING INSTRUCTIONS.

To connect your CM-7000PAL DVR, start with the antenna:

1. On the back of your TV, locate the **Antenna In** connection, which connects your TV to your over-the-air antenna. This connection may be labeled **Over-The-Air Antenna In**, **Cable In**, **Coax In** or another name. Refer to your TV's user guide for help locating this connection.

2. Disconnect the coaxial cable from your TV's **Antenna In** connection.

📝 **Note:**
> ❯ IF YOUR TV USES TWIN-LEAD (300 OHM) CONNECTIONS, YOU WILL NEED TO OBTAIN AND INSTALL A 75 OHM TO 300 OHM CONVERTER ON YOUR TV. THIS CONVERTER CAN BE FOUND AT MOST CONSUMER ELECTRONICS STORES.

3. Look at the back of your CM-7000PAL DVR, and locate the **Over-The-Air Antenna In** connection. Connect the coaxial cable from step 2 to the **Over-The-Air Antenna In** connection on the CM-7000PAL DVR.

⚠️ **Important:**
> ❯ DO NOT USE A WRENCH TO TIGHTEN THIS CONNECTION.

Determine the connection type you'll use to connect your CM-7000PAL DVR to your TV. If your TV has:

• An HDMI® connection, you can use a HDMI cable to provide both high-definition video and stereo audio to your TV's compatible input (go to step 4).

• Component connectors (Y/Pb/Pr) for video, you can use a set of component cables for video and either a Dolby Digital optical audio cable, or a pair of RCA-type audio cables (one right and one left), to connect to your TV's corresponding audio input (go to step 5).

• RCA connectors for both stereo audio and video, you can use RCA cables to connect from the **R-Audio-L-Video** connection (RCA-type) on your CM-7000PAL DVR to your TV's video input (go to step 6).

• An **Antenna In** connection that uses a coaxial cable, you can connect it to the **TV Set Out** connection on the CM-7000PAL DVR, and it will provide both standard video and mono audio on RF channel 3 or channel 4 (go to step 7).

4. To connect your CM-7000PAL DVR to your TV using an HDMI cable:

    -   Connect an HDMI cable between the HDMI connection on the CM-7000PAL DVR and the HDMI connection on your HDTV or monitor.

Connection
From Antenna

Optional RCA-type
Audio Connection

HDMI Connection
To Television
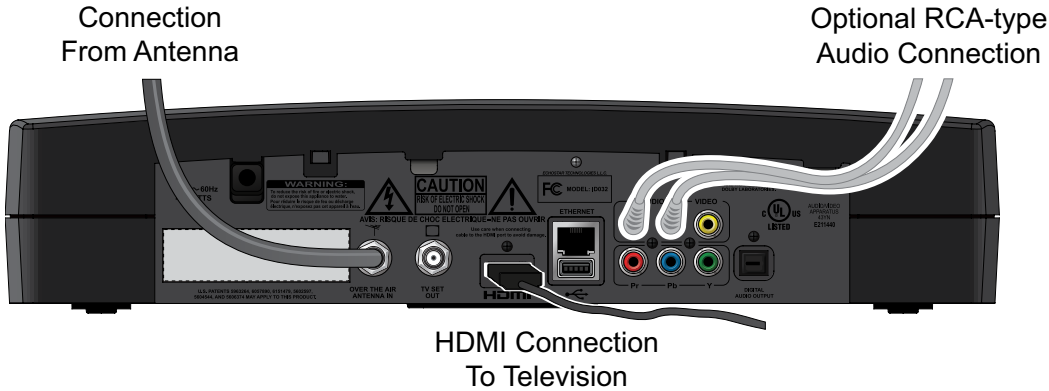
-   Plug the power cord of the CM-7000PAL DVR into an electrical outlet. Make sure your TV is also plugged in to power and turned on.

-   The CM-7000PAL DVR first displays a startup screen.

-   Confirm that you are getting a picture from the CM-7000PAL DVR. Consult your HDTV user's guide if you need to change your HDTV's settings to display from the HDMI input.
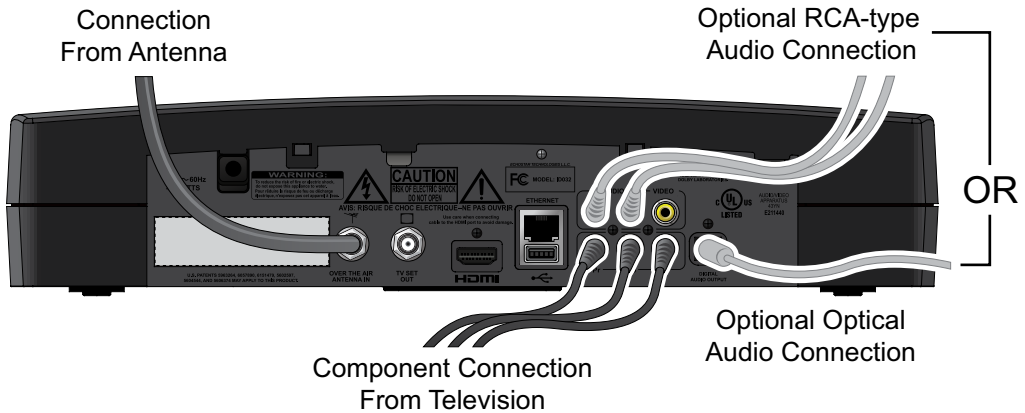
Note:

> *IN MOST CASES, CONNECTING THE HDMI CABLE PROVIDES PLUG–AND–PLAY CONTROL OF THE MONITOR'S DISPLAY RESOLUTION AND OTHER SETTINGS. HOWEVER, YOUR HDTV MAY REQUIRE SELECTING A DIFFERENT FORMAT TO DISPLAY VIDEO FROM THE CM–7000PAL DVR DURING SYSTEM SETUP.*

-   Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your CM-7000PAL DVR. Tune to live TV.

-   Turn up the volume on your HDTV and confirm you have sound.

-   **OPTIONAL:** If you don't have sound, your system may require you to connect a pair of RCA-type audio cables (one red and one white) between the CM-7000PAL DVR's audio outputs and your TV's audio input connections.

5. To connect your CM-7000PAL DVR to your TV using component cables (red, blue, and green connections):

Connection From Antenna

Optional RCA-type Audio Connection

OR

Component Connection From Television

Optional Optical Audio Connection

- Connect a set of component cables from the CM-7000PAL DVR's **YPrPb** (Red, Blue, and Green) component connections to your TV.

- Connect audio (red and white) RCA-type cables between the CM-7000PAL DVR's audio outputs and the audio input connections that go with the **YPrPb** video connectors on your HDTV. You can also use the optional optical connection if you use a device to decode Dolby Digital audio, for example for 5.1-channel surround sound.

- Plug the power cord of the CM-7000PAL DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

- The CM-7000PAL DVR first displays a startup screen.

- Confirm that you are getting a picture from the CM-7000PAL DVR. Consult your HDTV user's guide if you need to change your HDTV's settings to display from the component video input.

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your CM-7000PAL DVR. Tune to live TV.

- Turn up the volume on your HDTV and confirm you have sound. If you don't have sound, verify the connections for both left and right RCA-type audio cables on the back of your CM-7000PAL DVR and TV.

6. To connect your CM-7000PAL DVR to your TV using composite A/V cables (red, white, and yellow RCA-type):

Connection From Antenna

RCA-type Audio/Video Connection To Television

-   Connect a set of composite cables to your TV's RCA-type composite inputs.

-   Connect the other ends of the cables to the **R-Audio-L-Video** (RCA-type Audio/Video) connections on your CM-7000PAL DVR.

-   Plug the power cord of the CM-7000PAL DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

-   The CM-7000PAL DVR first displays a startup screen.

-   Confirm that you are getting a picture from the CM-7000PAL DVR. Consult your TV user's guide if you need to change your settings to display from the correct video input.

-   Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your CM-7000PAL DVR. Tune to live TV.

-   Turn up the volume on your TV and confirm you have sound. If you don't have stereo sound, verify the connections for both left and right RCA-type audio cables on the of your CM-7000PAL DVR and TV.

7. To connect your CM-7000PAL DVR to your TV using a coaxial cable:

Connection
From Antenna

Coaxial Cable Connection
To Television
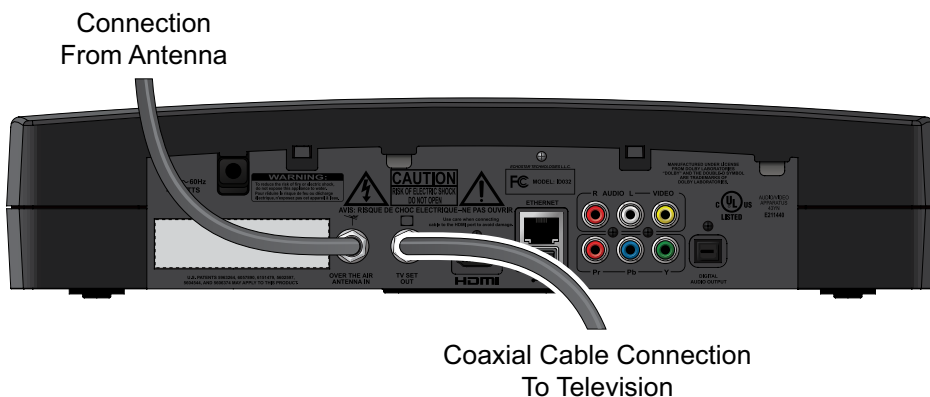
- Connect one end of coax to the TV's **Antenna In** (or **Cable In**, **Coax In** or another name) connection.

- Connect the other end of the coax cable to the **TV Set Out** connection on your CM-7000PAL DVR.

- Plug the power cord of the CM-7000PAL DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

- The CM-7000PAL DVR first displays a startup screen.

- Confirm that you are getting a picture from the CM-7000PAL DVR. You may need to select a different channel or input source on your TV. If you do not see the CM-7000PAL DVR screen on the default output Channel 3, try tuning your TV to Channel 4. You can change this default for CM-7000PAL DVR in Setup Wizard, on page 6.

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your CM-7000PAL DVR. Tune to live TV.

- Turn up the volume on your TV and confirm you have sound. If you do not have sound, check both ends of your coax connection.

USING THE SETUP WIZARD

To finish installing your CM-7000PAL DVR:

1. If you have not already done so, turn on your TV and change to the correct channel or input to view your CM-7000PAL DVR.

- If your TV is connected to your CM-7000PAL DVR using the coaxial connection (step 7), set the TV to channel 3, which is the default output channel for the CM-7000PAL DVR.

> *IF YOU HAVE A LOCAL CHANNEL THAT BROADCASTS ON CHANNEL 3, YOU CAN CHANGE THE MODULATOR OUTPUT SETTING FOR YOUR CM-7000PAL DVR TO CHANNEL 4 DURING THIS SETUP WIZARD, DESCRIBED BELOW.*

  - If your TV is connected to your CM-7000PAL DVR using any other type of connection (steps 4-6), you will need to set the TV to the correct video input or source. Most TV remote controls have an INPUT, SOURCE, or TV/VIDEO button that you can use to change the TV's video input or source. Refer to your TV's user guide for additional help changing the TV's input or source for the CM-7000PAL DVR.

1. Ensure that your over-the-air antenna is connected to your CM-7000PAL DVR and the antenna is positioned where it can receive local digital broadcasts. If you need help choosing or installing an over-the-air antenna, refer to www.antennaweb.org or call Channel Master at 1-877-746-7261.

2. Install the included AAA batteries in the CM-7000PAL DVR remote control. Be sure to follow the battery installation diagram printed inside the remote control's battery compartment.

3. The first time your CM-7000PAL DVR turns on, a Setup Wizard screen appears and guides you through the system setup process. The wizard scans for local digital over-the-air channels, and helps you set up the settings for your local area and TV display.

4. To navigate through the Setup Wizard, use the **SELECT** button on your remote control to confirm the highlighted on screen option. To highlight other options, use the **ARROW** buttons.

Tip:

> *IF THERE IS A PARTICULAR DIGITAL CHANNEL YOU WOULD LIKE TO USE TO OPTIMIZE THE POSITION OF YOUR ANTENNA, YOU MAY SELECT IT BY CLICKING POINT ANTENNA INSTEAD OF CONTINUE ON THE FIRST SCREEN OF THE SETUP WIZARD.*

5. Select **Continue** to begin the wizard. The Setup Wizard immediately begins trying to find channels and add them to your system. (If you have previously run the wizard, then any currently stored channels will be removed.)

6. After the channel scan is complete, you are prompted for information; use the **UP** and **DOWN ARROWS** and **SELECT** buttons to complete the setup of the CM-7000PAL DVR. (Select **Next** to go to the next setting or **Back** to go to the previous setting. Select Help to view on-screen help for the setting.)

  - Select your local time zone from the list, and indicate whether your area observes Daylight Savings Time (DST).
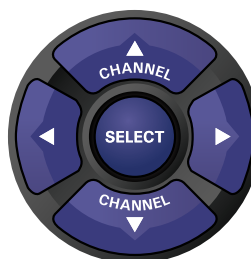
- Choose the resolution your HDTV supports (480p, 720p, or 1080i) and its aspect ratio (traditional 4 x 3, or "widescreen" 16 x 9). If you choose a resolution your TV does not support, you may lose video.

- On the next screen, choose the SD output type if you do not have a TV that supports any of the HD resolutions on the previous screen.

- Set the channel 3 or 4 output setting (if you're using the coaxial connection to your TV). If you have a local or cable channel that broadcasts on channel 3, be sure to change this setting to channel 4. If you do this, you will also need to set your TV's channel to 4.

- Use the **NUMBER PAD** to enter your complete ZIP Code, which is required to retrieve the proper TV Guide On Screen program data for your area.
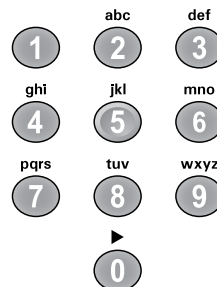
⚠️ **IMPORTANT:**

> *IF YOU ENTER THE WRONG ZIP CODE, THEN THE INFORMATION IN YOUR GUIDE WILL BE PROGRAM AND SYSTEM INFORMATION PROTOCOL (PSIP) DATA ONLY.*

1. The Setup Wizard will ask you to wait until it finishes downloading the Program Guide's PSIP data, and then will exit to display live digital TV.

2. Congratulations! Your CM-7000PAL DVR is now installed and ready to use! To start watching TV, press the **UP** or **DOWN ARROW** buttons on the remote to change channels, or enter a channel number using the **NUMBER PAD**.
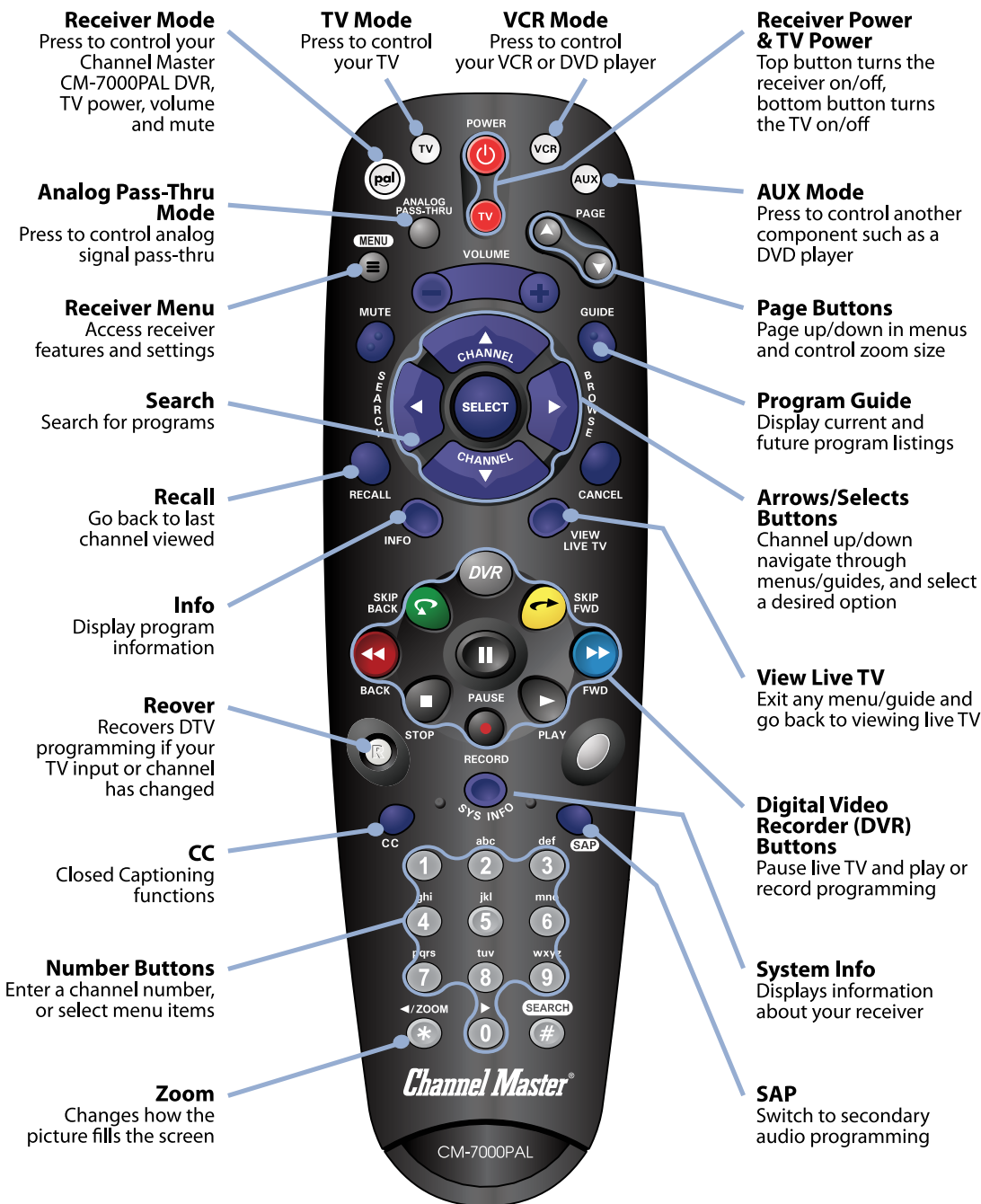
📝 **Note:**

> *SOME BROADCASTERS CHOOSE TO SEND SEVERAL DIGITAL CHANNELS IN THEIR BROADCAST RANGE RATHER THAN JUST ONE CHANNEL. THESE ADDITIONAL CHANNELS ARE CALLED SUB-CHANNELS, AND ARE IDENTIFIED BY A DASH, FOLLOWED BY A NUMBER (FOR EXAMPLE, CHANNEL 9-2 IS A SUB-CHANNEL OF CHANNEL 9). ON THE NUMBER PAD, ENTER "00902" TO CHANGE DIRECTLY TO CHANNEL 9-2, FOR EXAMPLE.*

USING THE REMOTE CONTROL BUTTONS

Receiver Mode
Press to control your Channel Master CM-7000PAL DVR, TV power, volume and mute

TV Mode
Press to control your TV

VCR Mode
Press to control your VCR or DVD player

Receiver Power & TV Power
Top button turns the receiver on/off, bottom button turns the TV on/off

Analog Pass-Thru Mode
Press to control analog signal pass-thru

AUX Mode
Press to control another component such as a DVD player

Receiver Menu
Access receiver features and settings

Page Buttons
Page up/down in menus and control zoom size

Search
Search for programs

Program Guide
Display current and future program listings

Recall
Go back to last channel viewed

Arrows/Selects Buttons
Channel up/down navigate through menus/guides, and select a desired option

Info
Display program information

Reover
Recovers DTV programming if your TV input or channel has changed

View Live TV
Exit any menu/guide and go back to viewing live TV

CC
Closed Captioning functions

Digital Video Recorder (DVR) Buttons
Pause live TV and play or record programming

Number Buttons
Enter a channel number, or select menu items

System Info
Displays information about your receiver

Zoom
Changes how the picture fills the screen

**SAP**
Switch to secondary audio programming

CM-7000PAL

NAVIGATING THE MENUS

1. Press **MENU** to see the CM-7000PAL DVR Main Menu. You can access most features from here. We'll show you other short cuts later.

2. Use the **UP** or **DOWN ARROWS** to move through the menu options. Or, enter the option number using the **NUMBER PAD**.

3. Press **SELECT** to choose a highlighted menu option.

4. Exit a menu by choosing Cancel from the on-screen options, or press **CANCEL** on the remote control.

5. Press **VIEW LIVE TV** to exit all menus and view current programming.

Note:

> *IN THIS GUIDE, WE'LL SAY "SELECT" TO MEAN MOVE THE HIGHLIGHT TO THE ITEM AND PRESS SELECT ON THE REMOTE CONTROL.*
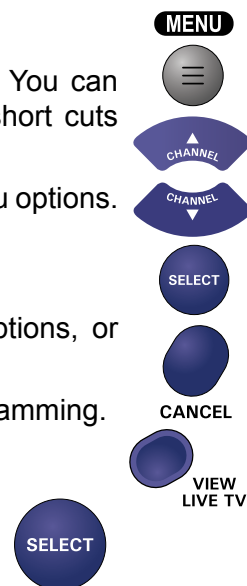
UNDERSTANDING SD & HD

- Using this HDTV over-the-air receiver, you can view and record both standard-definition (SD) and high-definition (HD) digital programming.

- You can view up-converted SD and native HD over-the-air digital broadcasts on a connected HDTV.

- You can view both native SD and down-converted HD programming on a connected SDTV.

OPTIONS FOR VIEWING TV

FINDING A PROGRAM: OVERVIEW

Channel Up/Down

While watching live TV, use the **UP** and **DOWN ARROWS** to change channels one at a time.

Direct Entry

Tune to a specific channel number by entering it using the **NUMBER PAD**. If the number you entered is invalid, the CM-7000PAL DVR tunes to the nearest valid channel number. To change directly to a sub-channel number, for example 8-3, enter a zero before each number, for example "00803".

PROGRAM GUIDE

- Press **GUIDE** to open the Program Guide and view the listing of current programs and programs scheduled to air over the next seven days.

Note:

> *Last-minute changes made to programming information and schedules may not always be reflected in Program Guide data.*

- Highlight a program to see information, or press **INFO** for more details.

- Change channels by highlighting a current program and pressing **SELECT**.

- Set up recordings for future events by highlighting a future program and pressing **SELECT** or **RECORD**. See Recording My Programs on page 14 for more information.

- Press **PAGE UP/PAGE DOWN** to view a set of channels one page at a time.

- Move forward, then back in time through the guide by:

    - Press the **SKIP FORWARD** button to move ahead 24 hours; press **SKIP BACK** to move back 24 hours.

    - Use the **NUMBER PAD** to enter a number of hours to move ahead, and then press the **RIGHT ARROW**. Once you've moved forward, then you can use the **NUMBER PAD** to enter the number of hours to move back, and press the **LEFT ARROW**.

Note:

> *You cannot move backward in the Guide into the past, or forward more than a maximum of 7 days into the future.*

    - If you entered the Guide from the Main Menu, press **CANCEL** to return to the Main Menu, or **VIEW LIVE TV**.

BROWSE BANNER

The Browse Banner allows you to watch a program while looking at program information on other channels.

- While watching a program, press the **RIGHT ARROW** to open the Browse Banner.

- The current program's information is displayed at the top of the screen.

- The bottom left of the Browse Banner displays information about the current program on each channel you change to.

- Use the **UP** or **DOWN ARROWS** or the **NUMBER PAD** to view other channels' information, and then the **SELECT** button to change to channels.

- On the bottom right, move the highlight using the **RIGHT ARROW** to see what shows are coming on in the future on that channel.

EVENT SEARCH

Event Search allows you to find programs in the Program Guide by a keyword within the Title, the Description, or either one. While watching a program, press the **LEFT ARROW** to open the Event Search screen. You can also press **MENU** and then select Event Search from the Main Menu.

REMOTE CONTROL SHORTCUT:

> PRESS SEARCH (#) TO OPEN THE KEYWORD SEARCH SCREEN. PRESS (#) WHEN HIGHLIGHTING AN EVENT IN THE GUIDE TO PERFORM A SEARCH FOR ALL OCCURRENCES OF THAT EVENT.

Searching for Specific Keywords

1. Enter a search term by using the on-screen keyboard, or entering letters using the remote control **NUMBER PAD**.

2. Select **Done** and then results matching your keyword are displayed.

3. If you want to use different options for this search then previous searches, select **Options** and then choose:

   • **Title** to search by program title, **Description** to search in the Program Guide descriptions, or **Title/Description** to search both.

   • **Exact Match** for a very specific search just on your keyword(s).

4. If you chose different search options, the results update automatically.

History

Choose **History** to perform new searches using keywords or other criteria you have previously used and saved on the Event Search screen. Note that you must select "**Save**" after a search to see that search in the History list.

SETUP MENU

Press **MENU**, and then select **Setup** to use the Setup Menu to:

- Set and reset password-protected locks, either based on programming ratings or on a channel-by-channel basis.

- Run the Setup Wizard again, or change any of the individual settings you selected when the wizard ran previously. You can even restore the system to the factory DVR defaults from before the wizard was run.

- Change the default audio language and audio output settings.

- Edit the broadband network setup options, or perform a system update.

DVR MENU

Press **DVR** or press **MENU** and select **DVR** to access many digital video recording features.

DVR

MENU

MY RECORDINGS

Displays all of the programs you have recorded on the CM-7000PAL DVR. See Recording My Programs on page 13 for more details. Select **Options** to change the way the list of recordings is sorted.

REMOTE CONTROL SHORTCUT:

> *Press DVR once to open the DVR Main Menu. Press DVR twice to open the My Recordings list.*

DVR

DAILY SCHEDULE

Displays all the timers you have set, for today or the future. Select **Timers** to go **Create** a new timer, or to **Edit** or **Delete** an existing timer. See *Setting Up Timers* on page 14 for more details.

CONTROLLING LIVE TV

You can use the DVR buttons on your remote control to control live TV. While watching live TV:

- Press **PAUSE** to pause a live program for up to one hour. Press **PLAY** to continue watching the program or press **VIEW LIVE TV** to catch up to real time.

PAUSE

- Press **SKIP BACK** to jump back in the program by 10 seconds.

- Press **SKIP FORWARD** to jump ahead by 30 seconds if you've paused or reversed the program.

PLAY

- Press **BACK** one to four times to fast reverse, or **FWD** one to four times to fast forward, at one of four different speeds: 4x, 15x, 60x, or 300x. Press **PLAY** to continue watching the program from any point.

BACK

- Press **PAUSE**, then **BACK** or **FWD** for slow motion at 1/15th normal speed, and **BACK** or **FWD** a second time for 1/4th normal speed. Press **BACK** or **FWD** a third time to return to normal speed.

FWD

- Press **PAUSE**, then **SKIP BACK** or **SKIP FWD** to move frame-by-frame.

VIEW LIVE TV

- At any time, you can press **VIEW LIVE TV** to catch up to real time in the programming.

See also ***Finding and Watching Recorded Programs*** on page 15 for DVR functionality with recorded events.

RECORDING MY PROGRAMS

RECORDING WHAT YOU'RE WATCHING NOW

To record a program you are currently watching, press **RECORD**. Select **OK** to start recording the current program now until it ends. The program will be stored on the CM-7000PAL DVR. To stop recording a program that you are watching, press **STOP**, and then select **OK**.

RECORD

STOP

SETTING UP TIMERS

Use a timer when you want to view or record a future program.

Timer Types

There are two types of timers:

• **Auto Tune** – Shows a pop-up notice that a timer event is about to begin, and then changes the channel to view it unless you stop it.

• **DVR** – Records a program or event to the hard-disk drive of your CM-7000PAL DVR.

Tip:

> *YOUR CM-7000PAL DVR RECORDS PROGRAMMING WHENEVER IT IS PLUGGED IN. THE GREEN FRONT-PANEL LIGHT CAN BE ON OR OFF WHEN RECORDINGS ARE BEING MADE. THE CM-7000PAL DVR MUST RECEIVE A SIGNAL ADEQUATELY STRONG TO INITIALIZE RECORDING. THE RED FRONT-PANEL LIGHT WILL INDICATE THAT A RECORDING IS IN PROGRESS.*

Note:

> *HD PROGRAMS REQUIRE UP TO SIX TIMES MORE SPACE THAN SD PROGRAMS, AND WILL FILL UP THE CAPACITY OF THE CM-7000PAL DVR FASTER.*
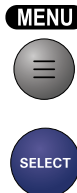
Recording from the Guide

To create a new timer from the Program Guide, highlight a future event and press **SELECT**. On the Create Timer screen, you can change the timer type, the frequency it repeats, channel, and other options (for DVR event timers).

SELECT

Recording by Creating a Manual Timer

To create a new timer from the Timers screen, press **MENU** and then select **Timers** from the MAIN MENU screen. Select **Create** for a new timer, or you may also **SELECT** an existing Timer in the list on the left

MENU

SELECT

to Edit or Delete that timer. If you highlight and **SELECT** more than one Timer in the list, then you may Delete (but not Edit) multiple timers at once.

Recording from the Search Menu

To create a new timer from the Search screen, highlight an program or event in the results list on the left and press the **SELECT** button. On the Create Timer screen, you can change the timer type (which defaults to DVR), repetition frequency, channel, and other options (for DVR event timers).

Recording from the Browse Banner

To create a new timer from the Browse Banner, highlight a future event and press **SELECT**. On the Create Timer screen, you can change the timer type, repetition frequency, channel, and other options (for DVR event timers).

FINDING AND WATCHING RECORDED PROGRAMS

My Recordings List

Press **DVR** and select My Recordings to view your list of recorded programs.

REMOTE CONTROL SHORTCUT:
> *Press the DVR button twice.*

While watching a program from the My Recordings list:

- Press **PAUSE** to pause the program. Press **PLAY** to continue watching the program.

- Press **SKIP BACK** to reverse by 10 seconds.

- Press **SKIP FORWARD** to jump ahead by 30 seconds in the program.

- Press **BACK** one to four times to fast reverse, or **FWD** one to four times to fast forward, at one of four different speeds: 4x, 15x, 60x, or 300x. Press **PLAY** to continue watching the program from any point.

- Press **PAUSE**, then either **BACK** or **FWD** for slow motion.

- Press **PAUSE**, then either **SKIP BACK** or **SKIP FWD** one or more times to move frame-by-frame.

- At any time, you can press **VIEW LIVE TV** to catch up to real time in the programming.

CAUTION:
> *On some TV's, the presence of fixed images for extended periods of time may cause permanent imprints on the screen.*

SELECT

SELECT

DVR

PAUSE

PLAY

BACK

FWD

VIEW LIVE TV

PREFERENCES MENU

Press **MENU**, and then select **Preferences** to use the Preferences Menu to change user settings for:

- How the on-screen Program Guide displays (see *Customizing the Guide and Channel Lists* on page 22)

- Showing or hiding Closed Captions for programming (see *Closed Captioning* on page 23)

- Adjusting the duration of, or disabling, Inactivity Standby (see *Inactivity Standby* on page 23)

- Disabling (or reactivating) the Mode Reminder message.

TIMERS MENU

Press **MENU**, and then select **Timers** to use the Timers Menu to:

- View all existing timers for events.

- Create a new timer, or Edit or Delete an existing timer. You may also delete several selected timers at once from the Timers Menu.

Timers can be either of two types:

- **DVR** – records an event automatically, even if the receiver is in standby (green front-panel light is out) at the time the event begins. Note that the receiver must be connected to a power source.

- **Auto Tune** – pops up a notice when an event is about to begin, and changes the channel to the new event unless you stop it.

Several options may be highlighted with the **UP** or **DOWN ARROW** keys, depending on whether a timer is intended for one single event, or should repeat periodically for a program.

You can select the timer to operate:

- **Once**

- **Daily**

- **Weekly**

- **Mon. - Fri.**

Note:
> *EVENTS THAT ARE RECORDED BY TIMERS THAT YOU SET TO REPEAT WILL BE DISPLAYED IN THE LIST USING THE NAME OF THE FIRST EVENT RECORDED BY THE TIMER.*

USING DOLBY® DIGITAL SURROUND SOUND

Press **MENU** and select **Setup**, then **Dolby Digital**, to access the Dolby Digital Menu. Dolby Digital gives you the capability to enjoy programs with surround sound. In order to enjoy full, 5.1-channel surround sound, you will require an external Dolby Digital decoder. Refer to the user's guide for your own system's decoder device for more information.

CM-7000PAL DVR uses a HDMI port to output digital audio and video, or an optical port to output digital audio only. The HDMI or optical connections can provide two audio data types: Dolby Digital and Linear PCM (only Dolby Digital audio through these connections can then be decoded to provide full, 5.1-channel surround sound).

Select one of the following, depending on your **Audio** mode:

• **Dolby**: Select this option if the stereo system or audio amplifier can decode only Dolby Digital and will not process Linear PCM signals. See your stereo equipment's owner's manual for more details on the amplifier or decoder.

• **PCM Only**: Select this option only if the stereo system or audio amplifier cannot decode Dolby Digital signals.

You can also choose from two different sound settings on this screen:

• **Standard**: When you use this setting, the dynamic range is wider, which makes music and loud noises louder, but voices quieter. This setting is good if you don't mind turning the volume up louder to hear the speaking portions of programs.

• **Night**: When you use this setting, the dynamic range is narrower, which makes music and loud noises quieter, but voices louder. This setting is good if you need to keep the volume lower.

This page intentionally left blank.

# CUSTOMIZING RECEIVER   19

Channel Master®

CM-7000PAL DVR

SETTING UP KEY FEATURES

LOCKS

Locks allow you to block channels or programs by requiring a password to be entered before they can be viewed.

Access the Locks menu by pressing **MENU** on the remote control, selecting Setup, then selecting **Locks**, then following the steps below. If you previously set a password, you'll need to enter the password to access the Locks menu. After you choose your Locks settings, you'll need to create a password and lock the system for the Locks to take effect.
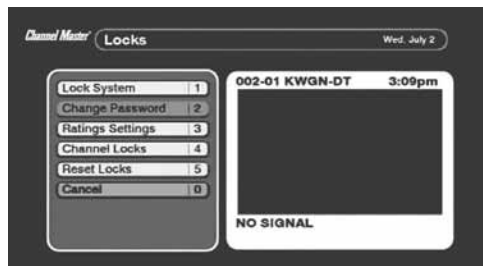
Locking specific channels

To require a password to be entered to view specific channels:

1. Select **Channel Locks** from the Locks menu.

2. Use the **UP** and **DOWN ARROWS** to find the channels you want to block. Press **SELECT** to include the channel in the list of locked channels. A channel is selected when it has a filled-in box next to it.

3. If you want to hide the selected channels from being displayed in the Program Guide and other channel lists, select **Yes** under Hide Locked Channels. Select **Done** to save your changes.

4. Follow the steps in Locking your CM-7000PAL DVR to apply the channel locks.
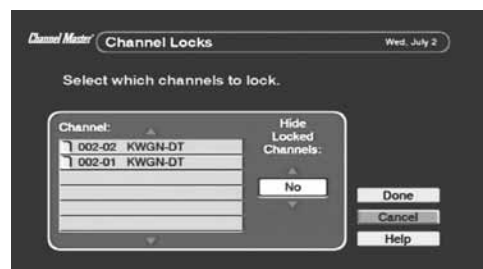
Locking Programs Based on Ratings

Your Channel Master CM-7000PAL DVR supports a variety of ratings categories. These ratings depend on information about the program included by the broadcaster. Broadcasters may use the Age and Content Guidelines, or the MPAA (Motion Picture Association of America) Guidelines.

- **Entire Audience**—Includes rating categories None, TV-G, TV-PG, TV-14, and TV-MA.

- **Children**—Includes rating categories TV-Y and TV-Y7.

- **MPAA** (Motion Picture Association of America)—Includes rating categories N/A, G, PG, PG-13, R, and NC-17.

- **Extended**—Includes rating categories Dialog, Language, Sex, Violence, and Fantasy Violence.

To block programs based on rating, use the following steps:

1. Select **Ratings Settings** from the Locks menu.

2. To easily select all categories for locking or unlocking, select **Block All** or **Unblock All**.

3. To edit a specific category, highlight the category.

4. For that category, press **SELECT** on the highest Rating you want to be viewed without a password. Anything with a rating higher than that will require entering your password before viewing. For example, if you select TV-G, programs with None or TV-G can be viewed without a password.

5. Select **Done** to save your changes.

6. Follow the steps in *Locking your Channel Master CM-7000PAL DVR* to apply the ratings locks that you have selected.
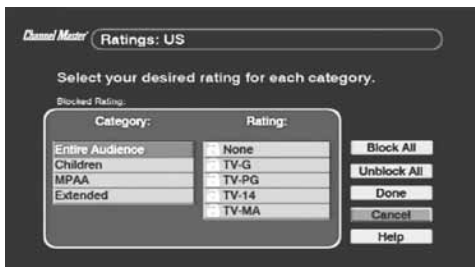
Locking Your Channel Master CM-7000PAL DVR

After you set the channel locks and the ratings locks, you must lock the CM-7000PAL DVR for the settings to take effect. Locking the CM-7000PAL DVR will also prevent anyone from deleting protected recordings, formatting the hard-disk drive, or re-running Channel Setup or the Installation Setup Wizard.

To lock your receiver, select **Lock System** on the Locks menu.

- If you already have a password, enter it using your remote control's **NUMBER PAD**.

- Enter a password using the **NUMBER PAD** on the remote control in the Password field.

- Enter the new password again when prompted. Your Channel Master CM-7000PAL DVR is now locked.

Note the following when using the Locks menu after locking your system:

> *IF YOU TRY TO ACCESS A LOCKED ITEM OR OPEN THE LOCKS MENU, THE CHANNEL MASTER CM-7000PAL DVR DISPLAYS A MESSAGE ASKING YOU TO ENTER THE PASSWORD. ENTER THE CORRECT PASSWORD TO CONTINUE.*

> *THE CHANNEL MASTER CM-7000PAL DVR PERMITS THREE ATTEMPTS TO ENTER THE CORRECT PASSWORD. IF YOU FAIL ALL THREE ATTEMPTS AT ENTERING THE CORRECT PASSWORD, THEN THE CHANNEL MASTER CM-7000PAL DVR DOES NOT ALLOW YOU TO TRY AGAIN FOR SEVERAL MINUTES.*

> *IF YOU EXIT A LOCKED ITEM OR CLOSE THE LOCKS MENU, YOU MUST RE-ENTER THE PASSWORD TO ACCESS THE ITEM.*

CUSTOMIZING THE GUIDE AND CHANNEL LISTS

Changing the Order of the Channels

Press **MENU**, select **Preferences**, and then **Guide Display**. Under **Direction**, you can set up the on-screen Program Guide to list channels in descending order, with the highest channel number at the bottom of the screen, or in ascending order, with the highest channel number at the top of the screen. The default setting is to list channels in descending order.

Changing the Type of Guide Display

The Channel Master CM-7000PAL DVR comes set to display the standard-size Program Guide with descriptions for the highlighted program or event. However, you can choose the style of Guide Display that you like in the **EPG Preferences** menu.

- **Medium Text** - This is the default option.
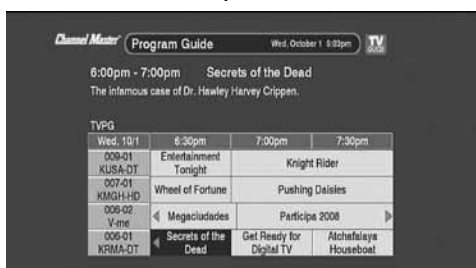
- **Large Text** - Choose this option if you'd like to see larger text and fewer hours of schedule per page on the Program Guide.

- **Small Text** - Choose this option if you'd like to see more channels and three hours of schedule in smaller text per page on the Program Guide.

CHANGING DISPLAY FORMATS

When viewing live TV or playing back a recording, you can press **PAGE UP** (to format the SD video outputs) or **PAGE DOWN** (for the HD outputs) or the **FORMAT**/***** button (for both SD and HD outputs) to cycle through the options for screen display format: **Auto** (the default, based on data about the displayed content), **Normal** (as on Installation screens under System Setup), **Stretch**, **Partial Zoom**, and **Zoom**.

CHANGING LANGUAGES

You may be able to change the audio language of some programs. Press **MENU**, select **Setup**, **Audio Setup**, then select to use your primary or alternative language. Also, when viewing live TV or playing back a recording, you can press the **SAP** button to hear the Secondary Audio Program for programming with SAP. Press **SAP** again to turn the feature off.

CLOSED CAPTIONING

Your Channel Master CM-7000PAL DVR has many options for Closed Captioning (CC), including font size, colors, edge style, service and opacity. To enable Closed Captioning for when viewing programming with captions, press **CC**, or you can press **MENU**, select **Preferences**, and select **Closed Captions**, then **Captions On**. Select either off or on, and then Done. When viewing live TV or playing back a recording with closed captions turned on, you can press **CC** again to turn the feature off.

INACTIVITY STANDBY

You can set up a period of time after which, if there has been no activity (such as changing channels or using the DVR buttons), the Channel Master CM-7000PAL DVR will go into standby mode (the green front-panel light will go out). This does not affect any event timers you have set, since the Channel Master CM-7000PAL DVR records even when in standby. To disable this feature or change its duration, press **MENU**, select **Preferences**, **Inactivity Standby**, make your settings and then select **Done**.

RESETTING FACTORY DEFAULTS

Press **MENU**, select **Setup**, **System Setup**, and then **Restore Factory Defaults**. A warning message will display on the screen. Select **Yes** to reset preferences and user settings. This will not affect your remote control address or any recordings you have saved, whether they are protected or not.

DIAGNOSTICS MENU

Press **MENU**, select **Setup**, **System Setup**, and then **Diagnostics**. You can use options on this menu to help diagnose and troubleshoot issues you may be having with your Channel Master CM-7000PAL DVR. The options include:

- **Video Mem** - Tests the VRAM in your Channel Master CM-7000PAL DVR for corruption.

- **HDMI** - Tests the HDMI connection to your TV, if one is present.

- **HDD** - Tests for problems with the hard-disk drive in the Channel Master CM-7000PAL DVR.

- **USB Test** - Tests the connection to a USB device, if one is present.

- **Ethernet** - Tests the Channel Master CM-7000PAL DVR's network connection, if you use it.

- **Counters** - Allows you to view and reset a number of system counters.

PROGRAMMING YOUR REMOTE CONTROL

The remote control gives you access to all the features of your Channel Master CM-7000PAL DVR. You can set up the remote to control as many as three additional devices. These devices can be your TV, VCR or DVD player, and a third device (such as a VCR or DVD player, audio receiver, tuner or amplifier, or another TV or satellite receiver). To use your Channel Master CM-7000PAL DVR remote control to operate these other devices, you must program your remote control for these other devices. You can enter codes directly to control your devices, or you can scan the remote control's database of device codes to find the right one.

SETTING UP DEVICES BY ENTERING CODES

You can set up the remote to control other devices using the device codes listed on page 26.

1. Turn the device on.

2. Find the brand name in the tables.

3. Press and hold the **MODE** button for the device until all the **MODE** buttons light up.

4. For **AUX** mode, press **0** for a TV, **1** for a VCR, or **2** for an audio tuner/amplifier.

1. Using the **NUMBER PAD**, enter one of the three-digit device codes for your brand from the table. Then press **#** (pound).

2. Wait for three flashes of the mode light. If it doesn't, go back to step 3.

3. Press **POWER** to turn off the device. If the device does not turn off, go to step 8.

4. Turn the device back on and try some other buttons to make sure they work. If the code works for other buttons, stop here.

5. If the code doesn't work, repeat steps 3 through 7 with the next device code from the tables.

6. If you can't find a code that works, then try *Setting Up Using Device Codes Scan*.

SETTING UP USING DEVICE CODES SCAN

1. Turn the device on.

2. Press and hold the **MODE** button for the device until all the **MODE** (TV) (VCR) (AUX) buttons light up.

3. Press **POWER**.

4. Press the **UP** (or **DOWN ARROW**, but not both) until the device turns off. Then press **#** (pound).

5. Wait for three flashes of the mode light. If it doesn't flash three times, then go back to step 3.

6. Turn the device back on and test to make sure it works with other remote-control buttons, like **VOLUME**.

REMOTE CONTROL DEVICE CODES

The following tables contain the manufacturer codes for programming the remote to control your TV, a VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. In some cases codes may operate some but not all buttons shown in this guide.

TV Codes

Programming in **AUX** mode: In most cases, use these codes to program in TV mode; however, if programming in **AUX** mode, press **0** before entering the TV code.

Abex 230

Action 662

Admiral 521 605 675

Aiko 727

Akai 570 573

Alleron 682

A-Mark 620

Amtron 657

Anam National 509 541 620 651 657 698

AOC 505 506 519 520 573 620 627 652 653 654

Apex 743 744 745 757 814 815

Archer 620

Audiovox 620 657 662

Baycraft 536

Belcor 652

Bell & Howell 590 675 683

Bradford 657

Brockwood 627 652

Broksonic 562 748 752

Candle 506 523 525 536 627 652 654

Candle/Citizen 573

Capehart 519 627

Circuit City 627

Citizen 506 516 523 524 525 526 590 652 654 657 658 680 727

Colortyme 573 627 652 654

Concerto 523 652 654

Contec Cony 662

Contec/Cony 541 655 657 726

Craig 536 541 657 662 694

Crown 526 536 657

Curtis Mathes 506 516 526 573 590 641 645 650 652 654 658 680 683 703 708

CXC 541 657 662

Cytron 903 904

Daewoo 505 524 526 529 530 531 573 630 652 653 654 658 684 698 719 727 816

Daytron 526 627 652 654 658

Dell 772 773 774

Dimensia 645 650

Dixi 566 620

Dumont 501 627 652

EchoStar 722

Electrohome 526 573 651 652 654 656 709 728

Emerson 526 534 536 541 573 590 627 636 642 648 652 654 655 657 658 662 682 683 692 696 699 720 816

Envision 506 573 652 654

Fisher 542 590 683

Fortress 573

Fujitsu 534 682 694

Funai 534 541 657 662 682 694

Futuretech 541 657 694

GE 508 509 543 544 630 645 646 650 651 652 654 676 690 691 698 701 715 716 725 728 742 779 809 859

General Electric 627

Gibralter 501 652

Goldstar 505 523 526 545 546 566 573 652 653 654 655 656 658 693 730

Granada 627

Grand 627

Grunpy 657 682

Hallmark 627 652 654

Harmon/Kardon 561

Harvard 657

Hinari 534

Hisense 759

Hitachi 523 526 548 549 553 554 555 585 597 626 636 638 643 648 652 654 655 702 718 726 786 788 789 790 791 792 801 802

IMA 657

Infinity 566

JBL 566

JC Penney 505 506 516 525 526 543 546 631 645 646 650 652 653 654 658 676 680 690 691 701 725 726 728 730

Jensen 556 573 652 654

JVC 508 557 559 642 649 655 676 726 735 736 737 812 817

Kawasho 548 561 573 652 654

Kenwood 506 573 652 654 656

Kloss 561 610

Kloss Novabeam 657 698 723 724

KTV 526 541 573 657 658 662 696

LG 653 766

Lloyds 627

Lloytron 526

Loewe 566

Logik 675

Luxman 523 652 654

LXI 563 566 590 595 617 631 635 645 646 650 654 683 691 701 725

M. Wards 500 505 506 534 543 567 568

Magnasonic 573

Magnavox 506 520 525 536 566 567 568 573 610 652 654 656 723 724 729 762 818 887 888

Majestic 675

Marantz 506 566 573 652 654

Megatron 627 654

Memorex 590 627 653 654 675 683 720

MGA 504 505 506 542 571 573 627 652 653 654 656 728

Midland 501 646 658 676 725 730

Mitsubishi 504 505 542 570 571 572 573 597 623 627 652 653 654 656 705 728 787 799 804

Mitsui 769

Montgomery Ward 675

Motorola 521 605 651

MTC 505 506 516 523 573 627 652 653 654 680

Multitech 657

NAD 502 617 627 631 635 637 654

National 509

NEC 505 506 507 517 523 573 627 651 652 653 654 731 732

Nikkai 612

Nikko 654 727

Normandic 717

Novabeam 561

NTC 727

Nyon 701

Olevia 766 773

Onwa 541 657

Optimus 637

Optonica 521 605 607

Orion 694

Osaki 612

Panasonic 508 509 512 566 644 651 662 676 685 689 698 700 716 734 761 765 780 784 811 819 820 821 822 823 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 889 890 900

Philco 505 506 525 536 568 573 610 651 652 653 654 655 656 723 724 729

Philips 525 566 651 652 655 656 690 723 724 729 770 782 824 825 826 827 828 891 892 893 894

Philips Magnavox 782 826 827 828 829

Pilot 652 658

Pioneer 502 548 576 636 637 648 652 654 708

Portland 505 526 573 652 653 654 658 727

Price Club 680

Prism 676

Proscan 645 646 650 691 725 742 857

Proton 513 519 526 536 585 627 652 654 655

Pro View 902

Pulsar 501 652

Quasar 508 509 651 676 698 700 860 861 862 895 896

Radio Shack 526 541 590 607 612 645 662 683 698

Radio Shack/Realistic 590 607 650 652 654 655 657 658 683 730

RCA 503 505 548 630 633 634 636 641 645 646 648 650 651 652 653 654 656 691 698 701 708 715 716 725 742 749 763 776 805 830 831 832 863 864

Realistic 590 645 683

Runco 501

Sampo 506 519 652 654 658 698 730 746

Samsung 505 506 516 523 526 566 573 612 627 647 652 653 654 655 656 658 680 704 717 730 738 755 833 858 897

Samwon 620

Sansui 754 834

Sanyo 542 590 652 683

SBR 566

Schneider 566

Scotch 654

Scott 526 534 541 600 652 654 655 657 662 682 696 701

Sears 523 534 542 563 590 595 601 604 617 627 631 635 645 646 650 652 654 656 682 683 688 691 703 725 726

Seimitsu 627

Sharp 521 526 585 605 607 628 629 652 654 655 658 739 740 741 777 794 803 835 836 898

Shogun 652

Signature 675

Silver 573

Simpson 525

Solavox 612

Sony 500 640 690 758 781 783 795 796 797 798 806 807 808 810 837 838 839 840 841 842 843 844 845

Soundesign 525 536 541 627 652 654 657 682

Spectricon 520 620

Squareview 694

SSS 505 541 573 652 657

Starlite 657

Supra 523

SVA 901 905

Sylvania 506 525 536 566 568 569 573 600 610 652 654 656 723 724 729 733 756 764

Symphonic 632 657 662 692 694 846

Tandy 521 605

Tatung 509 651 698

Technics 508 676

Techwood 523 573 652 654 676

Teknika 504 505 512 516 523 524 525 526 534 536 541 573 644 652 653 654 655 657 658 662 675 680 682 685 726 727

Tera 513

Thomas 627

Thompson 709

TMK 523 573 627 652 654

Toshiba 516 590 617 631 635 680 683 688 750 771 785 793 847 848 849 850 851 852 853 854 855 856 865 866

Totevision 526 658

Toyomenko 627

Universal 543 690

Vector Research 506

Victor 557

Video Concepts 570

Vidtech 505 573 627 652 653 654

Viewsonic 760

Wards 536 573 607 645 650 652 653 654 656 675 682 690 715 723 724 729

White Westinghouse 816

Yamaha 505 506 573 652 653 654 656

York 627

Zenith 501 520 639 652 675 693 775 778 813 899

Zonda 620

VCR Codes

Programming in **AUX** mode: In most cases, use these codes to program in **VCR** mode; if programming in **AUX** mode, press **1** before entering the **VCR** code.

Adventura 588

Aiwa 588 622 623

Akai 513 515 516 517 518 568 682

American High 678

Amstrad 588

ASA 556

Asha 675

Audio Dynamics 592 600

Audiovox 676

Beaumark 675

Bell & Howell 581

Broksonic 559

Calix 676

Candle 534 594 675 676

Canon 554 678 679

Citizen 534 591 592 594 675 676

Colortyme 592

Craig 591 675 676

Curtis Mathes 554 592 594 605 607 675 678 679

Cybernex 675

Daewoo 534 547 559 588

DBX 592 600

Dimensia 607

Dumont 549

Dynatech 588

Electrohome 512 676

Electrophonic 676

Emerson 505 508 509 511 512 518 534 559 568 588 590 618 676 678

Finlandia 549

Finlux 549 556 588

Fisher 549 581 584 588 610

Fuji 678

Funai 588

Garrard 588

GE 551 552 554 572 591 605 607 675 678 679

Go Video 557 558 620

Goldstar 592 594 676

Goodmans 585

Gradiente 588

Granada 549 581

Grundig 556

Harley Davidson 588

Harman Kardon 592

Harmon/Kardon 568 592

Headquarter 581

Hitachi 536 538 539 540 588 595 597 682

Instant Replay 678

ITT 518

JC Penney 554 581 591 592 594 595 600 675 676 678 679

JCL 678

Jensen 595 682

JVC 561 562 563 581 592 594 600 682

Kenwood 562 581 592 594 600 682

Kodak 676 678

LG 676

Luxor 518

Lloyd's 588

LXI 676

M. Wards 512 554 585 590 591

Magnavox 527 533 554 556 678 679 797 798

Magnin 676

Marantz 554 556 581 585 592 594 600 678

Marta 676

Matsushita 678

MEI 554 678

Memorex 533 549 554 566 581 585 588 675 676 678

MGA 512 567 568

MGN Technology 675

Midland 579

Minolta 595

Mitsubishi 512 562 567 568 570 571 595

Motorola 678

MTC 544 588 675

Multitech 579 588 675

Mutitech 591

NEC 562 581 592 594 600 682

Nikko 676

Noblex 675

Olympus 678

Optimus 676

Optonica 585

Panasonic 523 554 598 614 628 633 678 679 777 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 799 808 809 810

Pentax 592 595

Pentex Research 594

Perdio 588

Philco 554 678 679

Philips 554 556 585 678 801 802 803 804

Pilot 676

Pioneer 562 574 575 576 600

Proscan 605 607

Pulsar 533

Quarter 581

Quartz 581

Quasar 554 678 679 770 771 772 805 806

Radio Shack 512 607 610 676

Radio Shack/Realistic 581 584 588 675 676 678 679

Radix 676

Randex 676

RCA 518 525 527 528 591 595 605 607 615 631 649 675 678 773 774 775

Realistic 534 549 554 581 584 585 588 675 676 678 679

Ricoh 502

Runco 533

Salora 567 581

Samsung 515 517 534 579 591 675 755 807

Sanky 533

Sansui 544 562 600 682

Sanyo 549 581 583 675

SBR 556

Scott 508 534 559 590

Sears 549 581 584 595 610 676 678

Sharp 512 585 595 607 625

Shintom 595

Shogun 675

Singer 678

Sony 500 501 502 504 768 778

STS 678

Sylvania 554 556 567 588 678 679 756

Symphonic 588 594

Tandy 581 588

Tashiko 676

Tatung 594 682

Teac 588 594 682

Technics 554 633 678

Teknika 554 588 676 678

TMK 675

Toshiba 534 535 567 584 590 769 776

Totevision 591 675 676

Unitech 675

Vector Research 534 592 600

Victor 561 562 600

Video Concepts 534 568 592 600

Videosonic 591 675

Wards 534 588 595 675 676 678

XR-1000 588 678

Yamaha 581 592 594 600 682

Zenith 500 501 533 779

DVD Player Codes

Programming in **AUX** mode: In most cases, use these codes to program in **VCR** mode; if programming in **AUX** mode, enter **1** and then the DVD Player code.

Aiwa 634 694

Alpine 653

Apex 654 655 744 757 835 839

Archos 885

BOSE 758 811

Broksonic 656 752

Clarion 696

Classic 695

CyberHome 833

Cytron 904

Daewoo 657 859

Denon 697 699 700

EchoStar 722

Emerson 658

Fisher 659

Funai 658

GE 702 703

Go Video 692 693 822

GPX 704

Hitachi 660 705 706 707 740 823 860 668

JVC 689 711 850 861 862 863

Konka 637 638 753

Koss 745

Magnavox 661

Memorex 709

Mintek 710

Mitsubishi 767 867

Norcent 711

Oritron 723

Panasonic 639 663 699 714 715 716 734 765 813 840 841 855 856 868 869 870 871 872 873 882

Philips 766 874

Pioneer 665 719 812 876 877 878 879 880

Proscan 720

Qwestar 723

RCA 666 690 749 816 842 854

Sampo 724

Samsung 652 667 668 691 740 741 820 821 844 845 866 875 881 705

Sansui 725 754

Sanyo 643

Sharp 669 727 865

Sony 617 645 670 671 729 730 731 768 817 818 830 831 832 836 837 838 843 847 848 849 851 852 853 857 858 864 883 884

Sylvania 658 764 829

Teac 732

Technics 733

Techwood 664

Toshiba 616 646 672 735 736 814 815 819 825 826 827 828 834 846

Yamaha 737 739

Zenith 673 824

Tuner/Amplifier Codes

Programming in **AUX** mode: Press **2** before entering the tuner/amplifier code.

Aiwa 636 641 656 687 718 720 724 725 726

BOSE 761 780

Carver 653

Citizen 709

Denon 647 674 759 760 762 807 809 814 835

Fisher 653

GE 711

Goldstar 677 690

Harman Kardon 640 751

Harmon/Kardon 672

Hitachi 717

JBL 640

JVC 637 683 703 725 786 827

Kenwood 676 691 726 728 774 795 828 829 830 831 832 840 842

Magnavox 654 705

Marantz 651 764

Nakamichi 671

NEC 716

Onkyo 642 660 662 678 785 788 790 791 792 796 801

Optimus 648 664

Panasonic 643 644 652 783 797 798 799 808 810 815 816 817 818 819 820 821 822 824 825 826 833 836 837 838 839

Pioneer 658 667 668 679 702 767 770 772 779 802 806 844

Proton 654 705

Quasar 652

RCA 635 638 704 727

Sharp 712 713 714 715

Sherwood 646 670

Sony 639 645 687 728 729 730 765 766 769 771 773 775 776 777 778 781 782 784 787 789 793 794 803 811 812 813

Soundmatters 763

Teac 684

Technic 652

Technics 643 644 652 768 804 805 843

Toshiba 710

Victor 703

Yamaha 663 730 731 732 733 823 834 841

TV/VCR Combo Codes

Programming for combination equipment: Program the remote control in **TV** mode using the **TV** code and then in **VCR** mode using the **VCR** code.

	TV Code	VCR Code
Magnavox	887	797
	888	798
Philips	891	801
	892	802
	893	803
	894	804
Quasar	860	770
	861	771
	862	772
	895	805
	896	806
RCA	863	773
	864	774
Samsung	755	755
	897	807
Sylvania	756	756

TV/DVD Combo Codes

Programming for combination equipment: Program the remote control in **TV** mode using the TV code and then in **VCR** mode (or **AUX** – press **1** before entering the DVD code) using the DVD code.

	TV Code	DVD Code
Apex	757	757
Broksonic	752	752
Cytron	904	904
Panasonic	734	734
	765	765
RCA	749	749
Sansui	754	754
Sylvania	764	764
Toshiba	865	814
	866	815

TV/DVD/VCR Combo Codes

Programming for combination equipment: Program the remote control in **TV** mode using the **TV** code, then in **VCR** mode using the **VCR** code, and then **DVD** in **AUX** mode (press **1** before entering the DVD code) using the **DVD** code.

	TV	DVD	VCR
Panasonic	900	882	810

TV/VCR/Tuner Combo Codes

Programming for combination equipment: Program the remote control in **TV** mode using the **TV** code, then in **VCR** mode using the **VCR** code, and then tuner in AUX mode (press **2** before entering the tuner code) using the tuner code.

	TV	VCR	Tuner
Panasonic	867	796	797
	868	799	798
	869	808	799
	870	780	839
	871	781	838
	872	782	837
	873	783	836
	874	784	833
	875	785	826
	876	786	825
	877	787	824
	878	788	822
	879	789	821
	880	790	820
	881	791	819
	882	792	818
	883	793	817
	884	794	816
	885	795	815
	889	809	808

SOFTWARE UPDATE OPTIONS

Software updates may be made available to users of the Channel Master CM-7000PAL DVR, either to add new features or fix issues with existing ones. It is possible to update the software in your CM-7000PAL DVR using the USB 2.0 or Ethernet connections on the rear panel. A software upgrade does not affect existing recordings and cannot be performed when recording is active.

Follow the on-screen instructions and never turn your CM-7000PAL DVR off while a software download or update is taking place. This process can take as long as 5 minutes to complete, after which the CM-7000PAL DVR will restart and refresh its Program Guide information.

UPDATING VIA USB

Go to **www.channelmaster.com** to get the latest version of Channel Master CM-7000PAL DVR software and for more details on how to use the update feature.

Completing an Update via USB

Please remove or back up any files on your USB stick before downloading the software update. Channel Master cannot be held responsible for the loss of any data on your USB stick.

1. Insert a USB stick into a free USB port on your computer. Open the USB network drive, if it doesn't automatically. Right click inside this window and select **New – Folder**. Name this folder "update." If a previous update has been saved on the USB stick and an existing "update" folder exists, then ensure you either permanently delete the previous folder or rename it.

2. Open your Internet browser and go to **www.channelmaster.com**. Select the Downloads link from the CM-7000PAL DVR web page and then "Download Software Update." When the File Download window pops up, select "Save." Save the file in the "update" folder that you created on the USB stick.

3. When the file has finished saving, use Windows' Safely Remove Hardware function in the lower right of your desktop screen and remove the USB stick from your computer. Using your remote control, turn on your Channel Master CM-7000PAL DVR, and then insert the USB stick in the USB port on the back of the receiver. When a window pops up acknowledging that a USB software update is available, press OK or wait 30 seconds for the download process to begin automatically.

4. The "USB Download Available" message is displayed, listing the current software version and the new software version. Select **Download** with your remote control to continue, or wait 30 seconds for the download to continue automatically.

5. Once the file has been downloaded, the Channel Master CM-7000PAL DVR will verify the download. DO NOT press Select. Pressing Select on the remote control will cancel the update. After the download is verified, remove the USB stick from the back of your Channel Master CM-7000PAL DVR to continue the update.

- You are advised not to power off your Channel Master CM-7000PAL DVR. Once the software update is complete, the receiver automatically restarts and displays the New Software pop-up window to confirm the update was successful.

UPDATING VIA ETHERNET

Simply connect your Channel Master CM-7000PAL DVR to your broadband home network using an Ethernet connection and once your Channel Master CM-7000PAL DVR is in standby (turned off using the remote control, with the green front-panel light out), it will automatically download the latest compatible software within an hour. An immediate download can be forced by pressing the **MENU** button, selecting Setup, Broadband, and then Software Update. For more information and detailed software update instructions, please go to **www.channelmaster.com**

Completing an Update via Ethernet

1. Connect the Ethernet port on the back of your Channel Master CM-7000PAL DVR to your broadband modem/router using a standard network cable.

2. Access the Broadband Setup menu by pressing the **MENU** button, selecting **Setup**, and then **Broadband**. Then select option **1**, **Network Setup**.

3. If a Network Connection has been detected, select **Done** to return to the Broadband Setup menu. If not, see *Troubleshooting* on page 42.

4. Select option 2, **Software Update**, from the Broadband Setup menu. A window pops up, saying "Checking for IP update, please wait..."

5. "IP Download Available" should appear with the Download option highlighted. The current software version and the new software version are displayed. Press **SELECT** to start the software update; progress is displayed on the "IP Update" screen.

6. The update should be completed automatically. You are advised not to power off your Channel Master CM-7000PAL DVR. Once the software update is complete, the receiver automatically restarts and displays the New Software pop-up window to confirm the update was successful.

TV GUIDE

TV GUIDE ON SCREEN OR GUIDE PLUS SETUP

You only need to perform the following steps if you have a TV, DVD recorder, or VCR that includes TV Guide On Screen or Guide Plus. If you do not have a TV Guide On Screen or Guide Plus device, you will be able to use the built-in Program Guide in your Channel Master CM-7000PAL DVR.

If you are currently using TV Guide On Screen or Guide Plus in your analog TV, DVD recorder, or VCR for over-the-air TV reception (not cable or satellite service), you will need to change your TV Guide On Screen/Guide Plus setup option to continue receiving your TV Guide On Screen/Guide Plus listings.

The steps provided walk you through the changes you need to make to continue receiving show listings when your Channel Master CM-7000PAL DVR is connected to your Guide-enabled product.

For more detailed instructions or updated support information, refer to www.tvgos. com/support.

Getting Started

To set up the TV Guide On Screen to communicate with your Channel Master CM-7000PAL DVR, you'll need:

- **G-LINK Cable** - this cable is required to continue receiving TV Guide On Screen/Guide Plus listings in your Guide-enabled product. The G-LINK cable was shipped with your original TV Guide On Screen/Guide Plus-enabled TV, DVD recorder, or VCR. If you no longer have the G-LINK cable, visit www.tvgos.com/support.

- **Substitute ZIP Code** - you will need the five-digit code associated with your broadcast area. During setup, you will enter the Substitute ZIP Code in place of your actual ZIP code. These codes are provided on page 39 of this User Guide.

Setting Up Your Channel Master CM-7000PAL DVR

1. Connect your Channel Master CM-7000PAL DVR using the instructions on page 2. You should have connected the TV Set Out or Audio/Video output to the corresponding input on your Guide-enabled TV, DVD recorder, or VCR.

2. Using your CM-7000PAL DVR remote control, press **MENU**, select **Setup**, then **System Setup**, then **TV Guide & Guide +**.
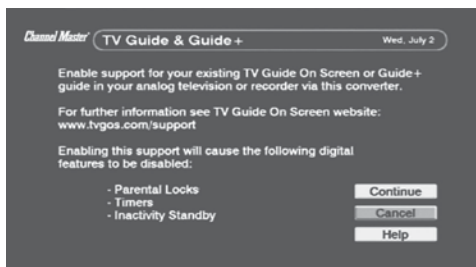
Connecting the G-LINK Cable

1. Connect the G-LINK cable to the G-LINK jack on the back of your TV Guide-enabled TV, DVR recorder, or VCR.
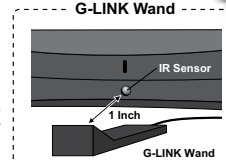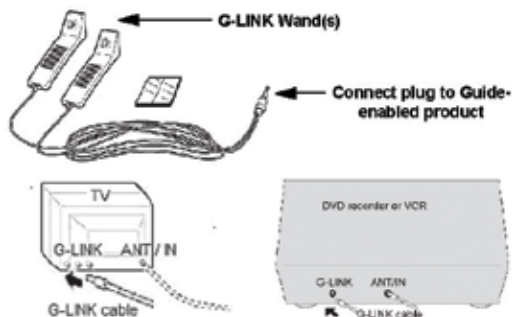
2. Place the G-LINK wand approximately one inch in front of the remote control sensor on your CM-7000PAL DVR.

1. Use tape to secure the G-LINK wand to the CM-7000PAL DVR front panel.

> **Note**
>
> > **THE REMOTE CONTROL SENSOR IS LOCATED IN THE MIDDLE OF THE FRONT PANEL OF YOUR CM-7000PAL DVR.**

Updating TV Guide On Screen and Guide Plus Setup

After connecting your Channel Master CM-7000PAL DVR to your TV Guide On Screen or Guide Plus-enabled device, use these steps to complete the setup.

> **Note**
>
> > **THE MENU OPTIONS ON YOUR GUIDE-ENABLED DEVICE MAY DIFFER FROM THE ONES DESCRIBED HERE.**

1. Using the remote control for your Guide-enabled TV, DVD recorder, or VCR, press **GUIDE** to open your Guide Listings screen.
2. On the Service Bar, select **Setup**, then **Change System Settings**.
3. If available, select **No**, repeat setup. Otherwise, follow the on-screen prompts.

Entering Your Location

The Guide uses setup information to provide TV show listings and channel lineups for your area.

1. Select **USA** as the country.
2. Use the remote control **NUMBER PAD** or the **UP** and **DOWN ARROWS** to enter the Substitute ZIP Code for your area. See 37 for the ZIP code listing.

Set Up Your Channel Master CM-7000PAL DVR

For your Guide to communicate with your Channel Master CM-7000PAL DVR, the Guide must be set up as though the CM-7000PAL DVR is a cable box, even though you do not have cable service. Use these steps to finish setting up the CM-7000PAL DVR.

1. Select **Cable with a Cable Box** or **Yes** I have cable.
2. If asked, select the type of audio/video input you used to connect your CM-7000PAL DVR to your Guide-enabled device, then follow the on-screen prompts.
3. If a connection diagram displays, verify the G-LINK cable is connected as shown.
4. For brand of cable box, select **Scientific Atlanta**.
5. Follow the on-screen instructions and verify that your CM-7000PAL DVR changed channels.
6. When asked if the device has tuned to Channel 9, select **Yes**.
7. On the confirmation screen, select **Yes, continue/finish setup process**. If you are asked about setting up a VCR, select the appropriate answer for your installation.

Completing Setup

- After setup is complete, exit the Guide setup screen. To begin receiving listings, be sure to turn off the Guide-enabled device when not in use.

- Within 24 hours, you will begin receiving TV show listings. It may take up to six days to receive the full eight days of initial show listings.

- Show listings are updated several times per day. Be sure to leave your CM-7000PAL DVR powered on to have the most updated listings information. It is normal for your CM-7000PAL DVR to change channels while the Guide-enabled device is powered off and is setting up or receiving new data.

Note

> WHEN YOU RECEIVE YOUR NEW GUIDE LISTINGS, YOU WILL NOTICE THAT YOUR CHANNEL NUMBERS HAVE CHANGED. REFER TO TUNING TO YOUR NEW CHANNEL NUMBERS, BELOW, OR VISIT WWW.TVGOS.COM/SUPPORT FOR MORE DETAILS.

Tuning to Your New Channel Numbers

After connecting your Guide-enabled TV or DVD recorder to your CM-7000PAL DVR or VCR, the channel numbers used in your Guide Listings will change.

Understanding Your New Channel Numbers

Your analog TV, DVD recorder, or VCR does not know how to tune to digital channels. The channel number assigned to your channel lineup allows your CM-7000PAL DVR to find the correct digital channels.

Finding Channel Numbers

In any Guide version, you can identify the channel number using the Channel Editor.

1. On the Service Bar, highlight Listings. Press **MENU** on the Guide-enabled device's remote control, then select **Edit Channel**.

2. The Channel Editor displays. Note the Guide channel number for each channel.

Note

> YOU NEED THIS CHANNEL NUMBER TO GO TO A SPECIFIC CHANNEL IN THE LISTINGS SCREEN OR IF YOU ARE SCHEDULING A MANUAL REMINDER OR RECORDING. VISIT WWW.TVGOS.COM/SUPPORT FOR MORE INFORMATION.

Channel Number

Displaying Channel Numbers in Listings

Your Guide version may or may not have the ability to display channel numbers in the Listings grid.

Channel Logo and Number

TODAY	8:00PM	8:30PM	9:00PM
PBS 2	Medici: Godfathers of the Renaissance	Frontline/World	
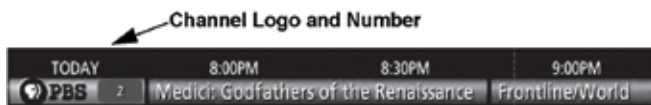
To determine if you can display the new channel numbers:

1. Highlight Listings (or any channel's logo), then press **MENU** on the Guide-enabled device's remote control.

2. The Listings Options (or Channel Options) menu appears. If there is a Channel ID field, you can press the **LEFT** or **RIGHT ARROW** to select a channel display option:

   Listings Options
   go to Service Bar
   video ◄ locked ►
   channel ID ◄ both ►
   edit channels
   done
   cancel

   • **Both** - displays both the channel logo and number.

   • **Logo** - displays only the channel logo.

   • **Number** - displays only the channel number.

Substitute ZIP Codes

Locate the major broadcast area closest to your location. Note the substitute ZIP code associated with this area and enter it as your ZIP code during the TV Guide On Screen/Guide Plus Setup.

Broadcast Area	ZIP Code
ALASKA	
Anchorage	00218
Fairbanks	00224
Juneau	00223
Sitka	00211
ALABAMA	
Anniston	00195
Birmingham	00050
Dothan	00165
Dothan	00207
Huntsville-Decatur-Florence	00081
Mobile-Pensacola-Ft Walt	00058
Montgomery-Selma	00111
Phenix City	00219
Tuscaloosa	00186
ARKANSAS	
Ft. Smith-Fayetteville-Springdale -Rogers	00117
Jonesboro	00177
Little Rock-Pine Bluff	00056
ARIZONA	
Phoenix	00021
Tucson-Sierra Vista	00079
Yuma-El Centro	00178
CALIFORNIA	
Bakersfield	00130
Chico-Redding	00125
El Centro	00192
Eureka	00187

Broadcast Area	ZIP Code
Fresno-Visalia	00057
Los Angeles	00002
Palm Springs	00162
Sacramento-Stockton-Modesto	00019
Salinas-Monterey	00103
San Diego	00024
San Francisco-Oakland	00005
-San Jose	
Santa Barbara	
-Santa Maria-San Luis Obispo	00112
COLORADO	
Colorado Springs-Pueblo	00097
Denver	00020
Grand Junction-Montrose	00188
CONNECTICUT	
Hartford-New Haven	00025
DISTRICT OF COLUMBIA	
Washington	00007
FLORIDA	
Ft. Myers-Naples	00087
Gainesville	00166
Jacksonville	00054
Miami-Fort Lauderdale	00015
Orlando-Daytona Beach-Melbourne	00023
Panama City	00164
Tallahassee-Thomasville	00115
Tampa-St. Petersburg-Sarasota	00016
West Palm Beach-Ft. Pierce	00046
Albany	00154
Atlanta	00011

Augusta	00110	Presque Isle	00205
Columbus	00122	**MICHIGAN**	
GEORGIA		Detroit	00009
Macon	00119	Flint-Saginaw-Bay City	00060
Savannah	00101	Grand Rapids-Kalamazoo-Battle Creek	00037
HAWAII		Ironwood	00222
Honolulu	00210	Lansing	00105
IOWA		Marquette-Escanaba	00175
Cedar Rapids-Waterloo-Iowa City		Traverse City-Cadillac	00121
-Dubuque	00082	**MINNESOTA**	
Des Moines-Ames	00068	Duluth-Superior	00126
Ottumwa-Kirksville	00200	Minneapolis-St. Paul	00014
Sioux City	00140	Rochester-Mason City	00148
IDAHO		**MISSOURI**	
Boise	00132	Columbia-Jefferson City	00151
Idaho Falls-Pocatello	00158	Joplin-Pittsburg	00146
Twin Falls	00201	Kansas City	00029
ILLINOIS		Paducah-Cape Girardeau-Harrisonburg	00077
Champaign-Springfield-Decatur	00075	Springfield	00080
Chicago	00003	St. Joseph	00193
Davenport-Rock Island-Moline	00084	St. Louis	00018
Marshall-Robinson	00217	**MISSISSIPPI**	
Peoria-Bloomington	00107	Biloxi-Gulfport-Pascagoula	00180
Quincy-Hannibal-Keokuk	00159	Columbus-Tupelo-West Point	00127
Rockford	00134	Greenwood-Greenville	00179
INDIANA		Hattiesburg-Laurel	00167
Evansville (no DST)	00215	Jackson	00088
Evansville (with DST)	00094	Meridian	00183
Ft. Wayne	00102	**MONTANA**	
Indianapolis	00026	Billings	00171
Scottsburg-Madison	00213	Butte-Bozeman	00189
South Bend-Elkhart	00083	Glendive	00221
Terre Haute	00138	Great Falls	00182
KANSAS		Missoula	00176
Topeka	00139	**NORTH CAROLINA**	
Wichita-Hutchinson	00062	Charlotte	00030
KENTUCKY		Greensboro-High Point	00049
Bowling Green	00181	-Winston Salem	
Lexington	00070	Greenville-New Bern-Washington	00104
Louisville	00047	Raleigh-Durham-Fayetteville	00032
LOUISIANA		Wilmington	00143
Alexandria	00169	**NORTH DAKOTA**	
Baton Rouge	00095	Fargo-Valley City	00109
Lafayette	00120	Minot-Bismarck-Dickinson-Williston	00152
Lake Charles	00174	**NEBRASKA**	
Monroe-El Dorado	00131	Lincoln-Hastings-Kearney	00099
New Orleans	00039	Omaha	00073
Shreveport	00071	**NEW MEXICO**	
MASSACHUSETTS		Albuquerque-Santa Fe	00048
Boston-Manchester	00006	Clovis	00220
Springfield-Holyoke	00098	**NEVADA**	
MARYLAND		Las Vegas	00074
Baltimore	00022	Reno	00118
Salisbury	00163	**NEW YORK**	
MAINE		Albany-Schenectady-Troy	00053
Bangor	00155	Binghamton	00135
Portland-Auburn	00076	Buffalo	00038

Elmira	00172
New York	00001
Rochester	00069
Syracuse	00067
Utica	00161
Watertown	00170

OHIO

Cincinnati	00031
Cleveland-Akron-Canton	00012
Columbus	00034
Dayton	00052
Toledo	00064
Youngstown	00092

OKLAHOMA

Oklahoma City	00043
Tulsa	00059

OREGON

Bend	00202
Eugene	00116
Medford-Klamath Falls	00145
Portland	00027

PENNSYLVANIA

Erie	00142
Harrisburg-Lancaster-Lebanon-York	00044
Johnstown-Altoona	00089
Philadelphia	00004
Pittsburgh	00017
Wilkes Barre-Scranton	00051

RHODE ISLAND

Providence	00045

SOUTH CAROLINA

Charleston	00106
Columbia	00086
Florence-Myrtle Beach	00136
Greenville-Spartanburg -Asheville-Anderson	00035

SOUTH DAKOTA

Rapid City	00168
Sioux Falls-Mitchell	00108

TENNESSEE

Chattanooga (CT)	00208
Chattanooga (ET)	00085
Jackson	00185
Knoxville	00063
Memphis	00042
Nashville	00033
Tri-Cities Tn-Va	00091

TEXAS

Abilene-Sweetwater	00157
Amarillo	00129
Austin	00065
Beaumont-Port Arthur	00137
Corpus Christi	00123
Dallas-Ft. Worth	00008
El Paso	00100
Houston	00010
Laredo	00198

Lubbock	00149
McAllen-Harlingen-Weslaco -Brownsville	00113
Odessa-Midland	00150
San Antonio	00036
Sherman-Ada	00156
Tyler-Longview-Lufkin -Nacogdoches	00114
Waco-Temple-Bryan	00096
Wichita Falls	00141

UTAH

Salt Lake City	00041

VIRGINIA

Charlottesville	00197
Harrisonburg	00173
Norfolk-Portsmouth-Newport News	00040
Richmond-Petersburg	00061
Roanoke-Lynchburg	00066

VERMONT

Burlngton-Plattsburg	00093

WASHINGTON

Seattle-Tacoma	00013
Spokane	00078
Yakima-Pasco-Richland-Kennewick	00124

WISCONSIN

Green Bay-Appleton	00072
La Crosse-Eau Claire	00128
Madison	00090
Milwaukee	00028
Wausau-Rhinelander	00133

WEST VIRGINIA

Bluefield-Beckley-Oak Hill	00147
Charleston-Huntington	00055
Clarksburg-Weston	00160
Wheeling	00144

WYOMING

Casper-Riverton	00194
Cheyenne-Scottsbluf	00196

GETTING HELP 41

Channel Master®

CM-7000PAL DVR

FINDING MORE INFORMATION

How to get help:

• You can find more information on the **www.channelmaster.com** website.

TROUBLESHOOTING

MISSING SPECIFIC CHANNELS

1. Your Channel Master CM-7000PAL DVR is only able to tune digital over-the-air channels. It is possible that some of the channels you are missing are channels that are still broadcasting in analog.

2. You can go to the website www.antennaweb.org to find out which channels in your area are currently broadcasting a digital signal. If the channel you are missing is still broadcasting in analog, you can view the channel using the TV's tuner. To view analog channels, press the **ANALOG PASS-THRU** button on the CM-7000PAL DVR remote control, then change channels on your TV using your TV's remote control. When you want to return to watching digital channels using your CM-7000PAL DVR, change back to the correct TV channel (3 or 4) or input/source, and press the **ANALOG PASS-THRU** button again.

SIGNAL LOSS ON ALL CHANNELS

1. Try a different channel. Sometimes, just one channel may be experiencing a problem, while other channels are fine. If just one channel seems have the problem, go to the next section, Signal loss on one or some channels. If all channels are experiencing the problem, then continue with Step 2.

2. Verify that the coax cable connecting to the **Over-The-Air Antenna In** connection is hand tight, and is connected to your over-the-air antenna.

3. Verify that your over-the-air antenna is still in place, and does not appear to have moved. If the antenna is moved out of proper alignment, then you may receive signal loss messages on some or all of your channels.

4. Try resetting your CM-7000PAL DVR. Press the **POWER** button on the CM-7000PAL DVR remote control to turn it off (in standby mode), then unplug the CM-7000PAL DVR from the power outlet for 15 seconds, plug it back in, and **POWER** it back on.

5. Check the signal strength on your over-the-air channels. Using your CM-7000PAL DVR remote control, press **MENU**, select **Setup**, **System Setup**, **Channel Setup**, then **Add a New Channel**. Find a channel that is experiencing problems, and verify that it has a strong signal. Channels with an indicated signal strength below approximately 60 are likely to experience loss of video.

6. Your over-the-air antenna may need to be adjusted. Contact your local retailer for assistance. If you want to try adjusting the antenna yourself, refer to any instructions accompanying the antenna, or to www.antennaweb.org for antenna recommendations and general information on antenna alignment.

SIGNAL LOSS ON ONE OR SOME CHANNELS

1. Try a different channel. Sometimes, just one channel may be experiencing a problem, while other channels are fine. If all channels are experiencing the problem, go to the previous section, Signal loss on all channels. If just one channel or a few channels seem to have a problem, then continue with Step 2.

2. Your CM-7000PAL DVR is only able to tune in digital over-the-air channels. If you are missing some channels, it is possible that some of them are channels that are still broadcasting analog signals.

3. You can refer to the website www.antennaweb.org for lists of which channels in your area are currently broadcasting digital signals. If the channel or channels you are missing is/are still in analog, you can view the channel(s) using the TV's built-in tuner. To view analog channels, press the **ANALOG PASS-THRU** button on the CM-7000PAL DVR remote control, then change channels on your TV using your TV's remote control. When you want to return to watching digital channels using your CM-7000PAL DVR, change back to the correct TV channel (3 or 4) or input/source, and press the **ANALOG PASS-THRU** button on your CM-7000PAL DVR remote control again.

REMOTE IS NOT WORKING

1. Verify the batteries are installed according to the battery diagram in the remote control.

2. Try changing the batteries in the CM-7000PAL DVR remote control. Batteries should all be of the same type and size.

3. Make sure you are pointing the remote control directly at the front panel of the CM-7000PAL DVR. The remote uses infrared (IR) signals to operate the CM-7000PAL DVR (and any other equipment you have programmed in the other device modes), and therefore must have line of sight to the front of the CM-7000PAL DVR (or other equipment).

FORGOT PASSWORD FOR LOCKS

1. Locate the Receiver ID number by pressing **MENU** on the CM-7000PAL DVR remote control, selecting **Setup**, **System Setup**, then **System Information**. Write down the Receiver ID number (before the dash).

2. To reset your password, press **MENU** on the CM-7000PAL DVR remote control, select **Setup**, then **Locks**. Enter the last four digits of your Receiver ID number (before the dash) as a temporary password, then select **Change Password** to choose a new password. When prompted for your old password, you must re-enter your temporary password before you can enter and then confirm a new password.

PROGRAM GUIDE ISSUES

1. If you try to display future programs in the Program Guide or **Browse Banner**, but are unable to find the schedule you are looking for, you may try displaying the Program Guide again later. By that time, updates may show programs for the times you want.

2. The Program Guide and **Browse Banner** can display only programs that have not yet ended. They cannot display a time earlier than the present.

3. If some channels are missing when you are using the Program Guide or **Browse Banner**, you may have locked the CM-7000PAL DVR to hide channels. Unlock the CM-7000PAL DVR (see Locks on page 19), or choose a different Favorites List, respectively, to show the channels you are missing in the guide.

4. For the full guide to be displayed, TV Guide data must be transmitted in your area. You have access to the TV Guide data if you see the TV Guide logo in the top right corner of the program guide. If the TV Guide logo is not showing, then please check that your ZIP Code has been entered correctly and TV Guide is enabled in your Guide Display preferences. Once the ZIP Code is verified to be correct, wait until the following day to recheck the Program Guide screen. If the TV Guide logo is still not present on the right, then unfortunately the extended Program Guide data may not be available in your area.

TIMER ISSUES

1. If you have set up the maximum number of event timers, the CM-7000PAL DVR displays an error message if you try to set up another, giving you the option to delete an existing event timer.

2. If you try to set up a manual timer with invalid start or stop times (for example, an event stop time that occurs before its start time), you will see an error message.

3. If you stop or skip a timer that is repeated, the next showing of the event is not affected. To stop all occurrences, you must delete the event timer. (A timer with a frequency of Once is deleted when it has occurred.)

4. If you set a timer that misses the beginning or end of a program, you may want to use or change the Start Early or End Late options for the timer, or set a manual timer to begin and end at times you specify.

EVENTS NOT RECORDING

1. Ensure any event timers you have set that you want to record programs are set as DVR timers, and not as Auto-Tune timers.
2. If you set up a repeating event timer, but it does not record a showing of the program, double-check that you set the correct repeat frequency for that program (Weekly, Daily, Mon-Fri.).

EVENTS DISAPPEARING FROM DVR LIST

1. If you run out of space on your CM-7000PAL DVR, recordings that are not protected will begin to be erased, starting with the oldest unprotected one, as needed to make room for new recordings, as they occur.
2. If you do not want a recording to be deleted, select **Protect** on the screen for that recording.

This page intentionally left blank.

APPENDIX 47

Channel Master®

CM-7000PAL DVR

LIMITED WARRANTY

⚠️ This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of Sale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

WHAT THE WARRANTY COVERS

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. Channel Master warrants this system against defects in materials or workmanship as follows:

• **Labor:** For a period of one year from the original date of purchase, if Channel Master determines that the equipment is defective subject to the limitations of this warranty, it will be repaired or replaced at no charge for labor as your sole and exclusive remedy. Channel Master warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period, with repair or replacement in accordance with the foregoing as your sole and exclusive remedy.

• **Parts:** For a period of one year from the original date of purchase, Channel Master will supply, as your sole and exclusive remedy and at no charge, new or re-manufactured parts in exchange for parts determined to be defective subject to the limitations of this warranty. Channel Master warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period, with the exchange of such parts in accordance with the foregoing as your sole and exclusive remedy.

📝 **Note**
> **"PARTS" MEANS ITEMS INCLUDED IN THIS PACKAGE, WHICH MAY INCLUDE THE RECEIVER AND REMOTE CONTROL. IT DOES NOT INCLUDE OTHER PARTS PURCHASED SEPARATELY.**

WHAT THE WARRANTY DOES NOT COVER

• This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.

• This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, cables, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction.

• This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the receiver manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.

- This warranty does not cover equipment sold AS IS or WITH ALL FAULTS, shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United States of America.

IF YOU NEED ASSISTANCE

1. Call the customer support number at 1.877.746.7261 between the hours of 7 a.m. and 5 p.m. Pacific Time, Monday-Friday, or visit our website at **www.channelmaster.com**. Have the date of purchase and your receiver ID number available. Press the **SYS INFO** button on your remote control to display the receiver ID number.

2. A Customer Service Representative will assist you. If the Representative determines you should return any equipment, you will be given instructions on how to return your equipment. You will be responsible for the cost of shipping back the defective equipment, whether under warranty or not.

3. Returned equipment must be packaged properly, using either the original shipping materials or other appropriate packaging. Include a copy of the Bill of Sale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

4. Follow the instructions given to you by the Customer Service Representative when returning your equipment for service.

LEGAL LIMITATIONS

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. CHANNEL MASTER AND ITS AFFILIATES SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS SYSTEM, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS SYSTEM OR OTHERWISE. UNDER NO CIRCUMSTANCES SHALL CHANNEL MASTER OR ITS AFFILIATES' LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS SYSTEM. EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, CHANNEL MASTER DOES NOT MAKE (AND CHANNEL MASTER EXPRESSLY DISCLAIMS) ANY OTHER REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, NON-INFINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES THAT MAY ARISE FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE. TO THE EXTENT THAT ANY SUCH WARRANTIES ARE CONSIDERED TO APPLY FOR ANY REASON BY OPERATION OF LAW OR OTHERWISE, SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY IF PERMITTED UNDER APPLICABLE LAW. CHANNEL MASTER RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF CHANNEL MASTER DETERMINES ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS SYSTEM NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE RECEIVER CHASSIS HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

FCC COMPLIANCE

⚠ The following text is extracted from Federal Communications Commission (FCC) regulations, as of the publication date of this Guide. Contact the FCC (see following) or your library for the complete text of the regulations.

COMPLIANCE INFORMATION STATEMENT

Channel Master, 2260 W. Broadway Rd, Suite 101, Mesa, Arizona 85202, (1.877.746.7261), declares that: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Do not make changes or modifications to this equipment. This could void the user's authority to operate the equipment.

There are many devices that allow you to connect your antenna to your in-home distribution system such as splitters, and amplifiers. The FCC requires that the isolation between the antenna port and the network port of your system meet the following:

• 80 dB from 54 MHz to 216 MHz, at least

• 60 dB from 216 MHz to 550 MHz, and at least

• 55 dB from 550 MHz to 806 MHz

Measuring the isolation of a device requires specialized equipment. In most cases, it is easier to purchase a splitter or amplifier with the correctly specified isolation from your local television retailer. The above requirements are extracted from 47CFR15.115. For the complete text please visit WWW.FCC.GOV.

This page intentionally left blank.

This page intentionally left blank.

This page intentionally left blank.

Channel Master®